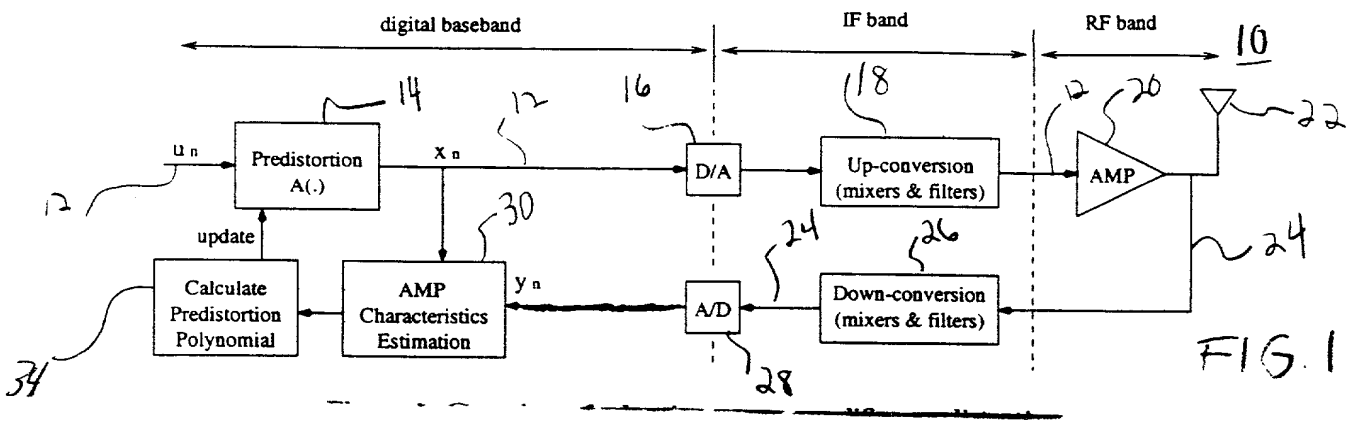
digital baseband
IF band
RF band
10
14
12
16
18
20
22
u_n
Predistortion A(.)
x_n
D/A
Up-conversion (mixers & filters)
AMP
update
30
24
26
Calculate Predistortion Polynomial
AMP Characteristics Estimation
y_n
A/D
Down-conversion (mixers & filters)
34
28

FIG. 1

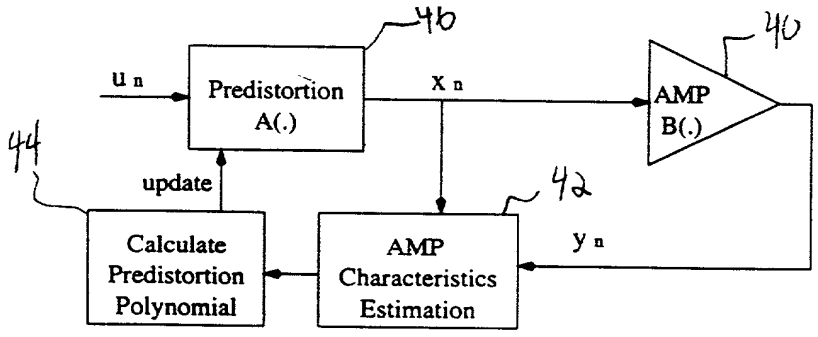
46
46
u_n
Predistortion A(.)
x_n
AMP B(.)
44
update
42
Calculate Predistortion Polynomial
AMP Characteristics Estimation
y_n

FIG. 2

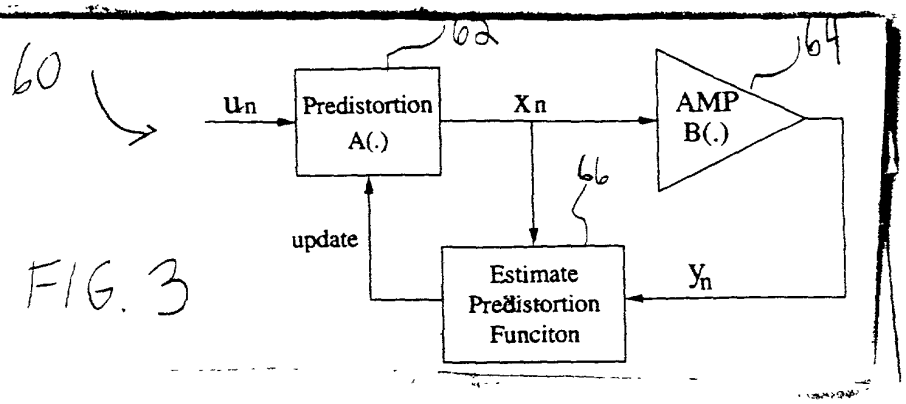
60
62
64
66
Un
Predistortion
A(.)
Xn
AMP
B(.)
update
Estimate
Predistortion
Funciton
Yn

FIG. 3

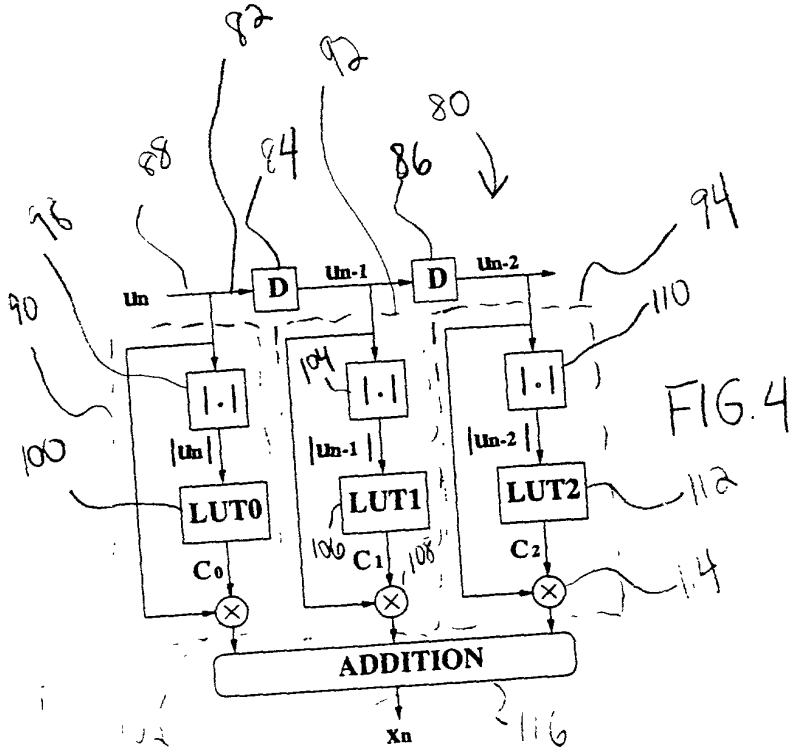
82
92
80
88
84
86
78
94
90
110
Un
D
Un-1
D
Un-2
|·|
|Un|
|Un-1|
|Un-2|
100
104
LUT0
LUT1
LUT2
112
C0
C1
C2
106
108
114
ADDITION
Xn
116
102

FIG. 4